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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=12; day=15; hr=9; min=17; sec=20; ms=708; ]

=====

\*\*\*\*\*

Reviewer Comments:

<210> 4

<211> 6

<212> PRT

<213> artifiical sequence

<400> 4

Gly Lys Ala Glu Lys Val

1 5

In the above <213> response, "Artificial" is misspelled. Also, please add an explanation of "<213> Artificial Sequence" in the <220>-<223> section; please indicate the source of the genetic material.

<210> 22

<211> 7

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X is acetylated glycine

<400> 22

Gly Lys Ala Arg Ala Phe Leu  
1 5

The above <223> response describes "Xaa" at location 1; however, "Gly" is at location 1.

<210> 40  
<211> 12  
<212> PRT  
<213> artificial sequence

<220>  
<223> synthetic peptide

<220>  
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<222> (1)..(1)  
<223> X is 3-nitrotyrosine

<220>  
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<223> Dpr

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<222> (10)..(10)  
<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> Xaa can be any naturally occurring amino acid

<400> 40

Xaa Gly Ser Lys Gly His Phe Lys Leu Xaa Phe Xaa  
1 5 10

One of the above <220>-<223> sections describes "Xaa" at location 8;

however, "Lys" is at location 8.

\*\*\*\*\*

Application No: 10535351

Version No: 1.0

**Input Set:****Output Set:****Started:** 2009-11-24 18:16:54.881**Finished:** 2009-11-24 18:16:59.312**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 431 ms**Total Warnings:** 47**Total Errors:** 11**No. of SeqIDs Defined:** 47**Actual SeqID Count:** 47

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W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
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W 213	Artificial or Unknown found in <213> in SEQ ID (6)
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W 213	Artificial or Unknown found in <213> in SEQ ID (9)
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W 213	Artificial or Unknown found in <213> in SEQ ID (19)
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**Input Set:**

**Output Set:**

**Started:** 2009-11-24 18:16:54.881  
**Finished:** 2009-11-24 18:16:59.312  
**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 431 ms  
**Total Warnings:** 47  
**Total Errors:** 11  
**No. of SeqIDs Defined:** 47  
**Actual SeqID Count:** 47

Error code	Error Description
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<110> The Johns Hopkins University  
Denmead, Samuel  
Isaacs, John  
Lilja, Hans

<120> Activation of Peptide Prodrugs by hk2

<130> 50562-P001US

<140> 10535351

<141> 2009-11-24

<150> PCT/US03/36880

<151> 2003-11-18

<150> 60/427,309

<151> 2002-11-18

<160> 47

<170> PatentIn version 3.5

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<220>

<223> synthetic peptide

<400> 1

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1 5

<210> 2

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<213> artificial sequence

<220>

<223> synthetic peptide

<400> 2

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1 5

<210> 3

<211> 6

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<400> 3

Gly Lys Ala Tyr Phe Met

1 5

<210> 4

<211> 6

<212> PRT

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<400> 4

Gly Lys Ala Glu Lys Val

1 5

<210> 5

<211> 6

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<400> 5

Gly Lys Ala Phe Arg Lys

1 5

<210> 6

<211> 6

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Gly Lys Ala Lys Pro Arg

1 5

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Gly Lys Ala Ala Tyr Tyr  
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Gly Lys Ala Phe Arg Arg  
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<400> 10

Gly Lys Ala Ile Gln Arg  
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<210> 11

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<400> 11



Gly Lys Ala Met Arg Gln  
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1 5

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<220>

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<220>

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<223> X is acetylated 3-nitrotyrosine

<220>

<221> MISC\_FEATURE

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<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<400> 18

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<400> 19

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<211> 7

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Gly Lys Ala Phe Arg Arg Leu  
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<400> 31

Gly Lys Ala Ile Gln Arg Leu  
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<400> 33

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1 5

<210> 34  
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<400> 35

Gly Lys Ala Asn Met Asn Leu  
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<220>  
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<220>  
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<400> 36

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1 5 10

<210> 37

<211> 10

<212> PRT

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<220>

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<220>

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<220>

<221> MOD\_RES

<222> (8)..(8)

<223> Dpr

<220>

<221> MISC\_FEATURE

<222> (10)..(10)

<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<400> 37

Xaa Gly Lys Ala Lys Pro Arg Xaa Phe Xaa  
1 5 10

<210> 38

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<212> PRT

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<220>

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<220>

<221> MISC\_FEATURE



<222> (10)..(10)  
<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<400> 38

Xaa Gly Lys Ala Phe Arg Arg Xaa Phe Xaa  
1 5 10

<210> 39  
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<220>  
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<400> 39

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<210> 40  
<211> 12  
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<220>  
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<220>  
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<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> Xaa can be any naturally occurring amino acid

<400> 40

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1 5 10

<210> 41  
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<220>  
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<223> ACETYLATION

<220>  
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<223> X is leucine functionalized at the C-terminal end with 12ADT  
(L12ADT).

<400> 41

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1 5

<210> 42  
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<223> X is 3-nitrotyrosine

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<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<400> 42

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1 5 10

<210> 43  
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<400> 43

Gly Lys Ala Phe Arg Arg Leu Gly  
1 5

<210> 44  
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<220>  
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<400> 44

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1 5

<210> 45

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<220>  
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<222> (11)..(11)  
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<400> 45

Xaa Gly Ser Lys Gly His Phe Lys Leu Xaa Xaa  
1 5 10

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<400> 46

Xaa Gly Ser Lys Gly Pro Phe Lys Leu Xaa Xaa  
1 5 10

<210> 47  
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<223> X is 3-nitrotyrosine

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<223> X is 2-aminobenzoic acid-substituted lysine (Lys-Abz)

<400> 47

Xaa Gly Ser Lys Gly His Phe His Leu Xaa Xaa  
1 5 10